

# Methods in fluvial geomorphology

3<sup>rd</sup>  
Circular

Invite you to the

May 17–18, 2022 in Horní Bečva, Czechia



## Dear registered workshop participants,

We are happy to announce that the 2<sup>nd</sup> ČAG-ASG Workshop focused on **field survey methods, data acquisition and processing in fluvial geomorphology will be held** before the ČAG-ASG conference State of Geomorphological Research in 2022.

The workshop will take place in the conference venue, Horní Bečva, Hotel Duo, **on May 17 – 18, 2022.**

Workshop is organized and lead by researchers of the Department of Physical Geography and Geoecology, Faculty of Science, University of Ostrava and Institute of Geography, Slovak Academy of Sciences.

The general aim of the workshop is the **demonstration of modern methods and their application in fluvial-geomorphic research**. Modern research in fluvial geomorphology requires an integrated approach to answer the questions on river behaviour. The workshop will be focused on selected methods, commonly used by the organizers from the University of Ostrava and the Slovak Academy of Sciences during their research. The workshop is addressed to those **students and young researchers** who are dealing with river systems, hydrology or river restorations, but also to those, who want to broaden their skills and meet new colleagues.

## Workshop program is focused on:

- basic field survey of river flow and river channels (sediment size parameters, cross-sectional geometry)
- methods of bedload transport modelling using different tools (BAGS software, Bedload Tool, web applications for bedload modelling, etc.)
- basics of optical granulometry and related software (Sedimetrics, BaseGrain, Pebblecounts)
- quantification of channel stability and relations between the hydraulic and sedimentological parameters
- assessment of maximum flood discharges from palaeostage indicators
- demonstration of PIT tag monitoring for the evaluation of sediment transport

**Workshop website:** [prf.osu.eu/geomorphology/pre-conference-workshop](http://prf.osu.eu/geomorphology/pre-conference-workshop)

**Contact email:** [geomorfologie@osu.cz](mailto:geomorfologie@osu.cz)

**The workshop is free of charge.** The participants will however pay the accommodation and meals in Hotel Duo (same conditions as for the Conference – [see details here](#)). Participants will be accommodated in Retro rooms.

**See the participant requirements and workshop detailed program on the next page.**

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## Participant requirements:

- gumboots or good boots for staying in shallow water
- outdoor clothes (in case of sunny weather, we recommend to cover your head and use sunscreen)
- own laptop
- camera or smartphone with a good camera for photography

## Detailed program:

### Tuesday May 17, 2022

- 12:00–13:00** arrival / accommodation of the participants
- 13:00–13:15** Workshop opening
- 13:15–13:30** transport to a small gravel bar upstream the Horní Bečva water dam (600 m from the conference venue)
- 13:30–14:00** data acquisition for optical granulometry (Sedimetrics / BaseGrain / PebbleCounts)
- 14:00–14:15** moving to a site with cross profiles and sediment measurements (for transport and channel stability modelling)
- 14:15–16:00** field work on the site (cross profile measurement, Wolman method)

- 16:00–16:15** demonstration of measurement of clasts marked by PIT-tags (for the evaluation of sediment transport)
- 16:15–16:30** introduction to methods for flood magnitude estimation based on the position and dating of flood scars from trees (palaeostage indicators)
- 16:30–17:00** transport back to the conference venue
- 17:00–17:15** coffee break
- 17:15–17:45** entering measured data into MS Excel
- 17:45–19:00** bedload transport modelling (software BAGS, Bedloadweb) and channel bed stability modelling (RBS index)

### Wednesday May 18, 2022

- 8:00–10:00** data preparation / software installation, processing the optical granulometry data
- 10:00–10:15** coffee break
- 10:15–11:20** processing the optical granulometry data, comparing results from different methods
- 11:20–11:30** Workshop closing